

TITLE: POTABLE WATER CIRCULATION SYSTEM

ABSTRACT OF THE DISCLOSURE

The present invention relates to systems for circulating water in a potable water piping network to prevent the stagnation of water in this piping network. Several systems are disclosed wherein partitioned pipes, pumps, partitioned headers, check valves, and scoop inserts are used to keep the water in movement inside the pipes. The present invention comprises several pumping arrangements for circulating water inside fire hydrant laterals and inside the branch pipes along dead-end streets where most of the water stagnation occurs. Although partitioned pipes are used and opposite flows are induced in opposite pipe halves, full pipe flow to each hydrant is maintainable in case of emergency. Inside buildings, the water is kept in movement inside a loop pipe that extends close to each water outlet such that the water is maintained fresh at each outlet.